

**ANTIMICROBIAL PAPER PRODUCT**

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**Inventor:** MIYAMOTO KENICHI; MAKINO KIMIHIRO  
**Applicant:** NICCA CHEMICAL CO LTD  
**Classification:**  
- **international:** D21H21/36; A47K7/00; C08G18/83; C08K5/31;  
C08L1/00; C08L97/00; D21H17/50  
- **european:**  
**Application number:** JP20000080684 20000322  
**Priority number(s):**

**Abstract of JP2001271293**

**PROBLEM TO BE SOLVED:** To provide antimicrobial paper product that has excellent antimicrobial effect against a variety of microorganisms and can minimize the elution of the components developing the antimicrobial properties.

**SOLUTION:** The objective antimicrobial paper product is characterized by comprising a paper material and a polyguanidine salt represented by general formula (1) (wherein R1 and R2 may be identical or different and represent each a divalent aliphatic hydrocarbon group, a divalent aromatic hydrocarbon group or a divalent alicyclic hydrocarbon group; HX is a mineral acid or an organic acid; p is an integer of 1-250).

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**11. Polyguanidine salt for preparation of antibacterial paper**

**CAS SECTION- 143**

**CAS SUBSECTION- 007**

**CAS 135-19 135-274463 135:274463 NDN- 213-0488-6998-2**

**INVENTOR(S)-** Miyamoto, Kenichi; Makino, Kimihiro

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**CORPORATE AUTHOR-** JP, Japan

**COUNTRY-** JP

**PATENT TYPE-** Jpn. Kokai Tokkyo Koho

**PATENT ASSIGNEE(S)-** Nikka Chemical Industry Co., Ltd.

**INTERNATIONAL PATENT CLASS-** D21H0213600; A47K0070000; C08G0188300;  
C08K0053100; C08L0010000; C08L0970000; D21H0175000

**SUBFILE CODE-** MAC

**LANGUAGE-** Japan

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**NO-ABSTRACT**

**IDENTIFIER(S)-** polyguanidine phosphate antibacterial paper

**CAS REGISTRY/EC NUMBER(S)-** 89697-78-9 --PP **HEADING PARENT-**

Poly(iminocarbonimidoylimino-1,6-hexanediyl)

**CAS REGISTRY/EC NUMBER(S)-** 298700-47-7 --PP **HEADING PARENT-**

Poly(iminocarbonimidoylimino-1,2-ethanediyl)

**CAS REGISTRY/EC NUMBER(S)-** 362632-69-7 --PP **HEADING PARENT-** Ethane --1,2-  
diisothiocyanato-

**CAS REGISTRY/EC NUMBER(S)-** 362632-69-7 --PP **HEADING PARENT-** 1,2-  
Ethanediamine

**CAS REGISTRY/EC NUMBER(S)-** 362632-71-1 --PP **HEADING PARENT-** Hexane --  
1,6-diisothiocyanato-

**CAS REGISTRY/EC NUMBER(S)-** 362632-71-1 --PP **HEADING PARENT-** 1,6-  
Hexanediamine